查询D1FL40供应商

SHINDENGEN

Super Fast Recovery Rectifiers

Single

D1FL40

400V 0.8A

FEATURES

- Small SMT
- Low noise
- trr50ns

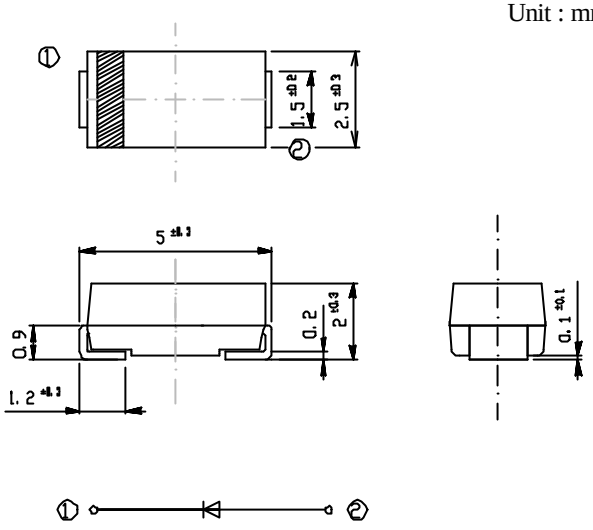
APPLICATION

- Switching power supply
- DC/DC converter
- Free Wheel
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS

Case : 1F

Unit : mm



RATINGS

●Absolute Maximum Ratings (If not specified Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55～150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V_{RM}		400	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Ta=25°C On alumina substrate	0.8	A
		50Hz sine wave, R-load, Ta=25°C On glass-epoxy substrate	0.6	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	25	A

●Electrical Characteristics (If not specified Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F=0.8A, Pulse measurement	Max.1.3	V
Reverse Current	I_R	V_R=V_{RM}, Pulse measurement	Max.10	μA
Reverse Recovery Time	trr	I_F=0.5A, I_R=1A	Max.50	ns
Thermal Resistance	θjl	junction to lead	Max.23	°C/W
	θja	junction to ambient, On alumina substrate	Max.108	
		junction to ambient, On glass-epoxy substrate	Max.157	

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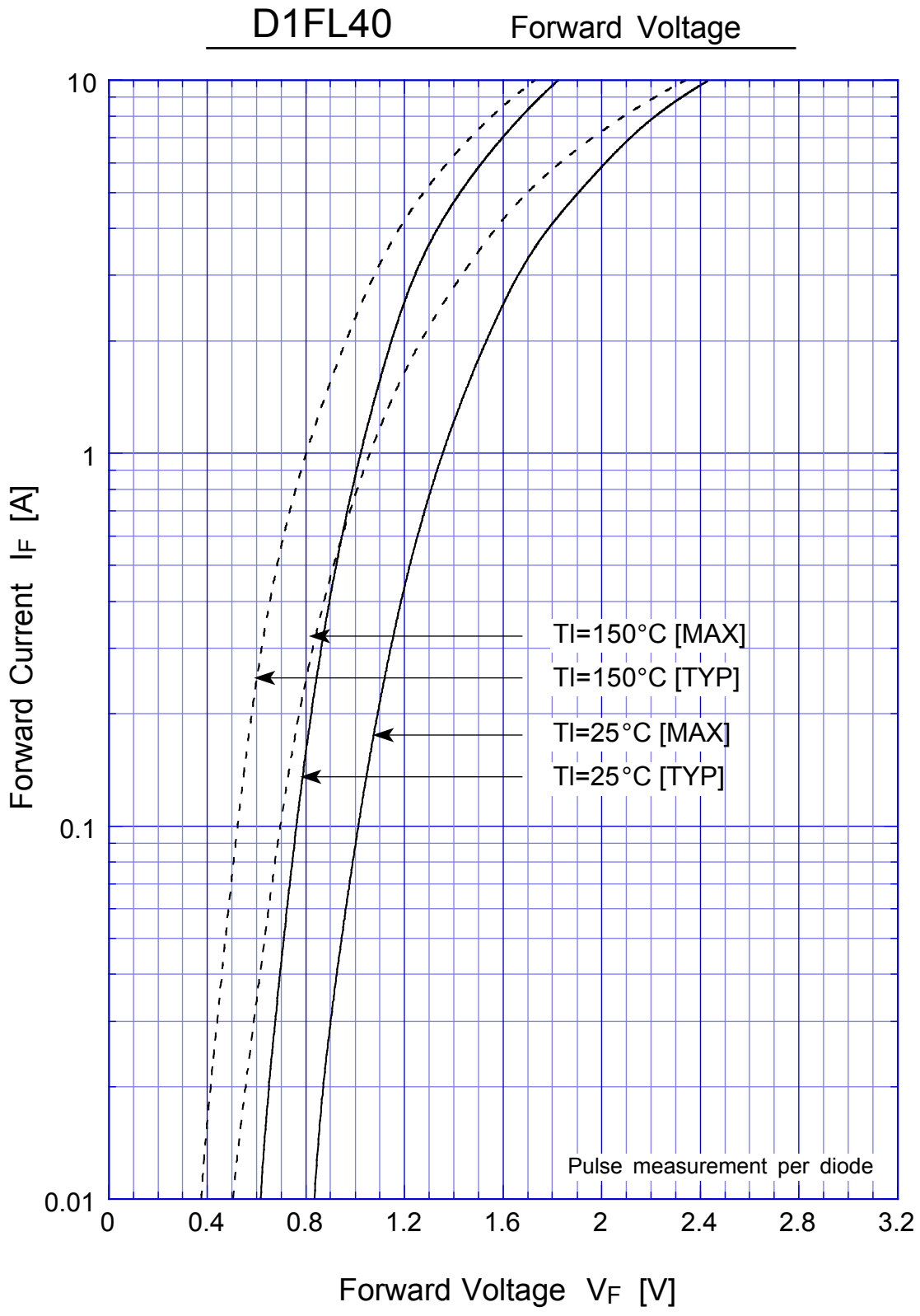
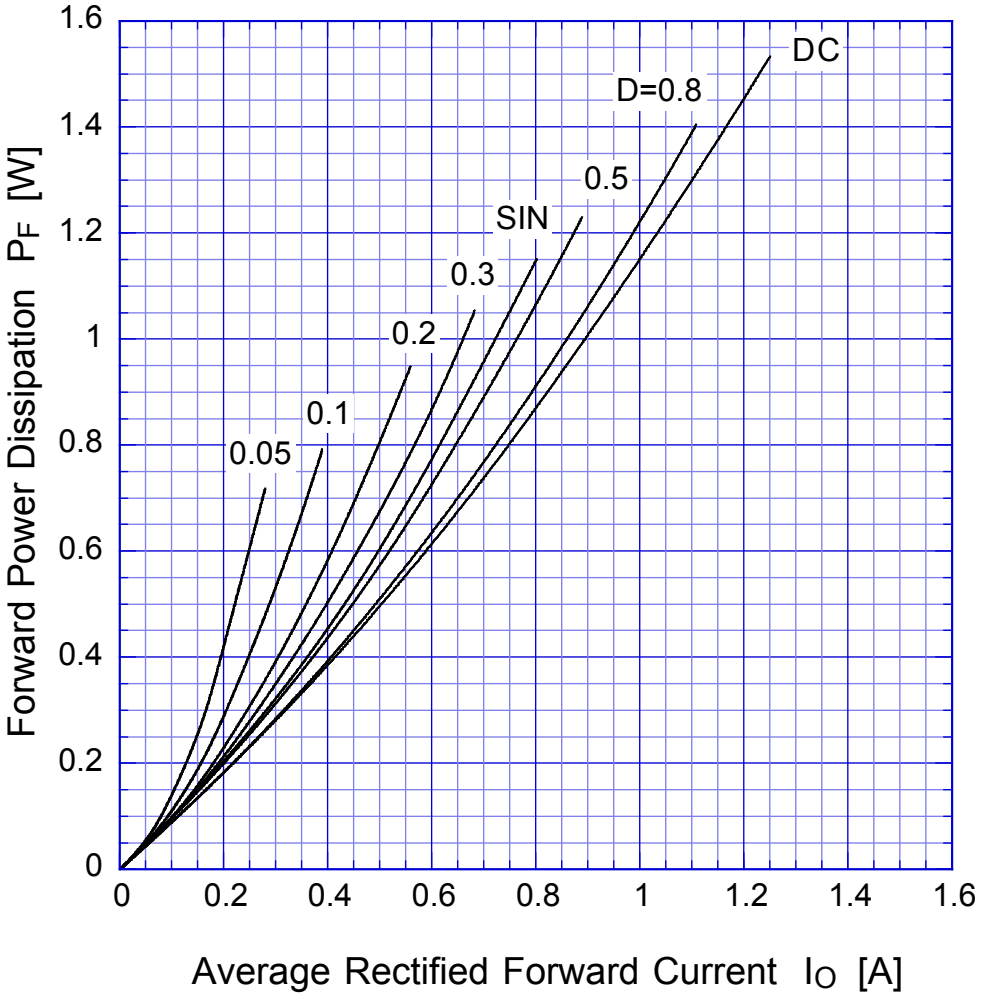
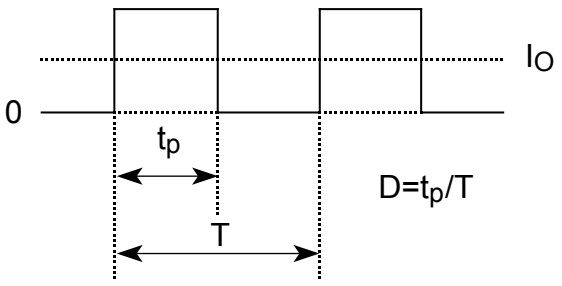

D1FL40
Forward Voltage
10
1
0.1
0.01
0
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
Forward Current IF [A]
Forward Voltage VF [V]
Tl=150°C [MAX]
Tl=150°C [TYP]
Tl=25°C [MAX]
Tl=25°C [TYP]
Pulse measurement per diode

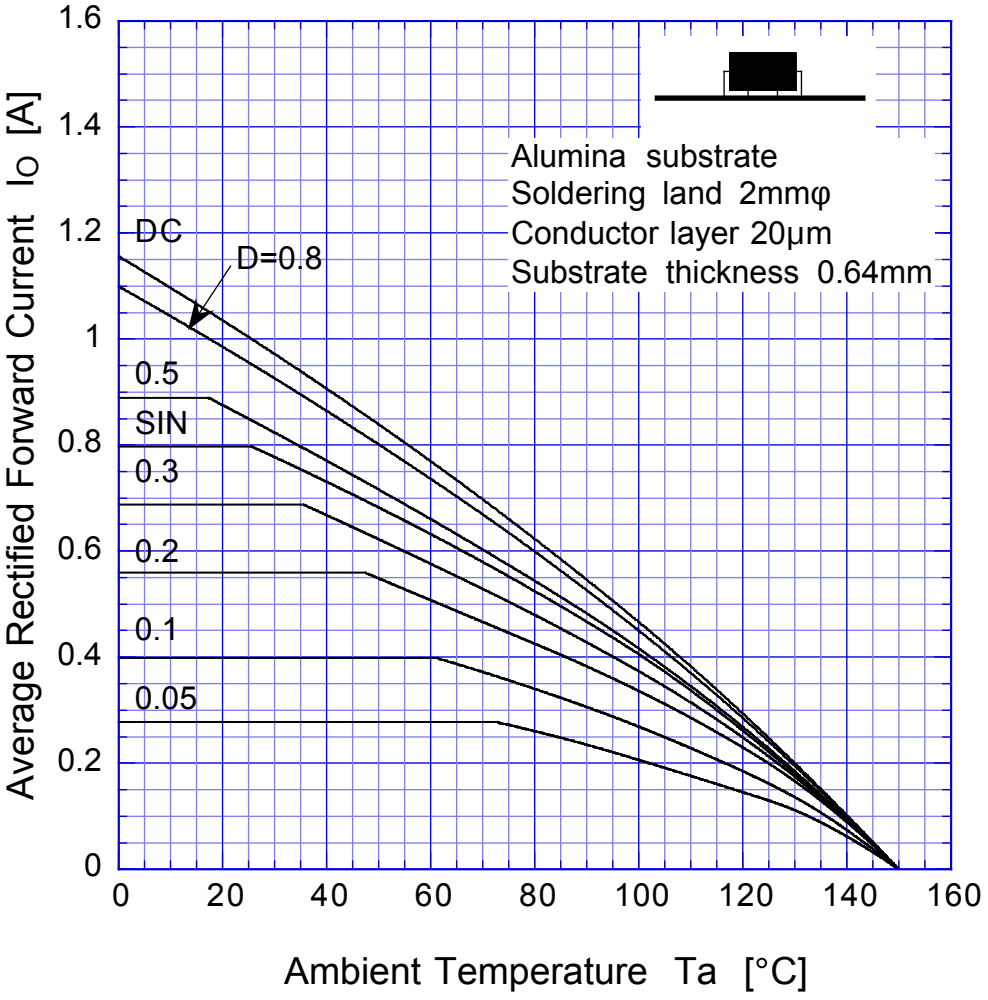
D1FL40 Forward Power Dissipation

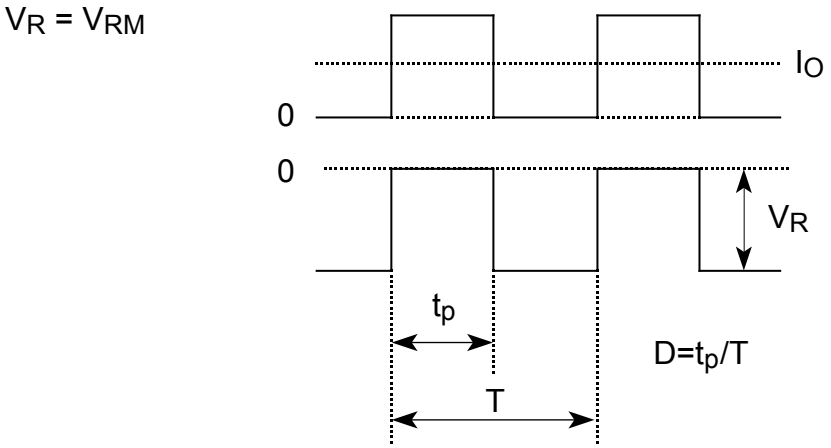


Tj = Tjmax

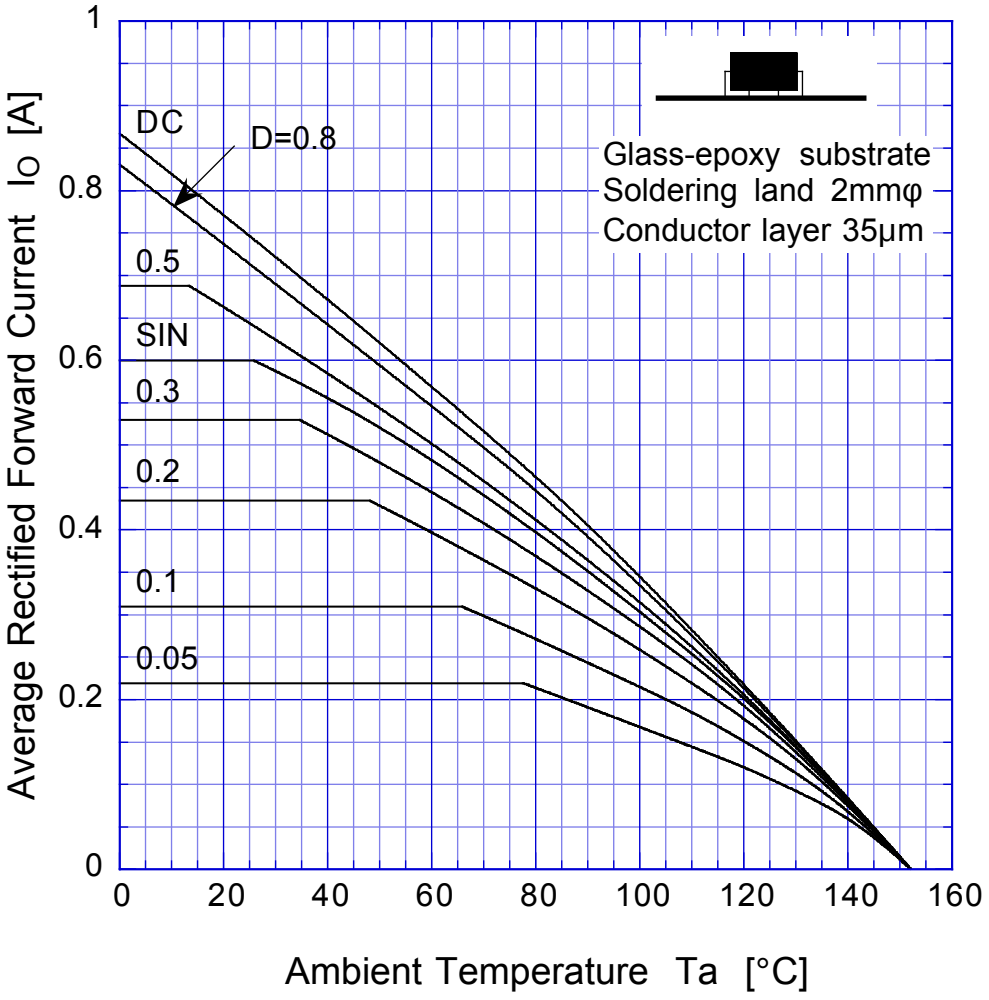


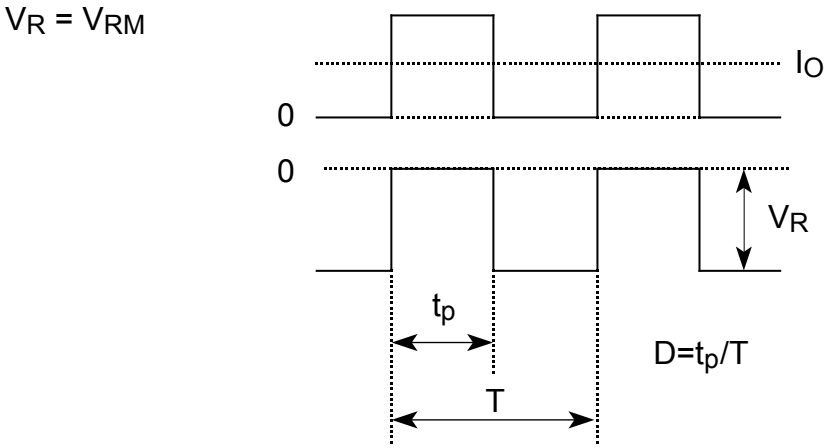
D1FL40 Derating Curve



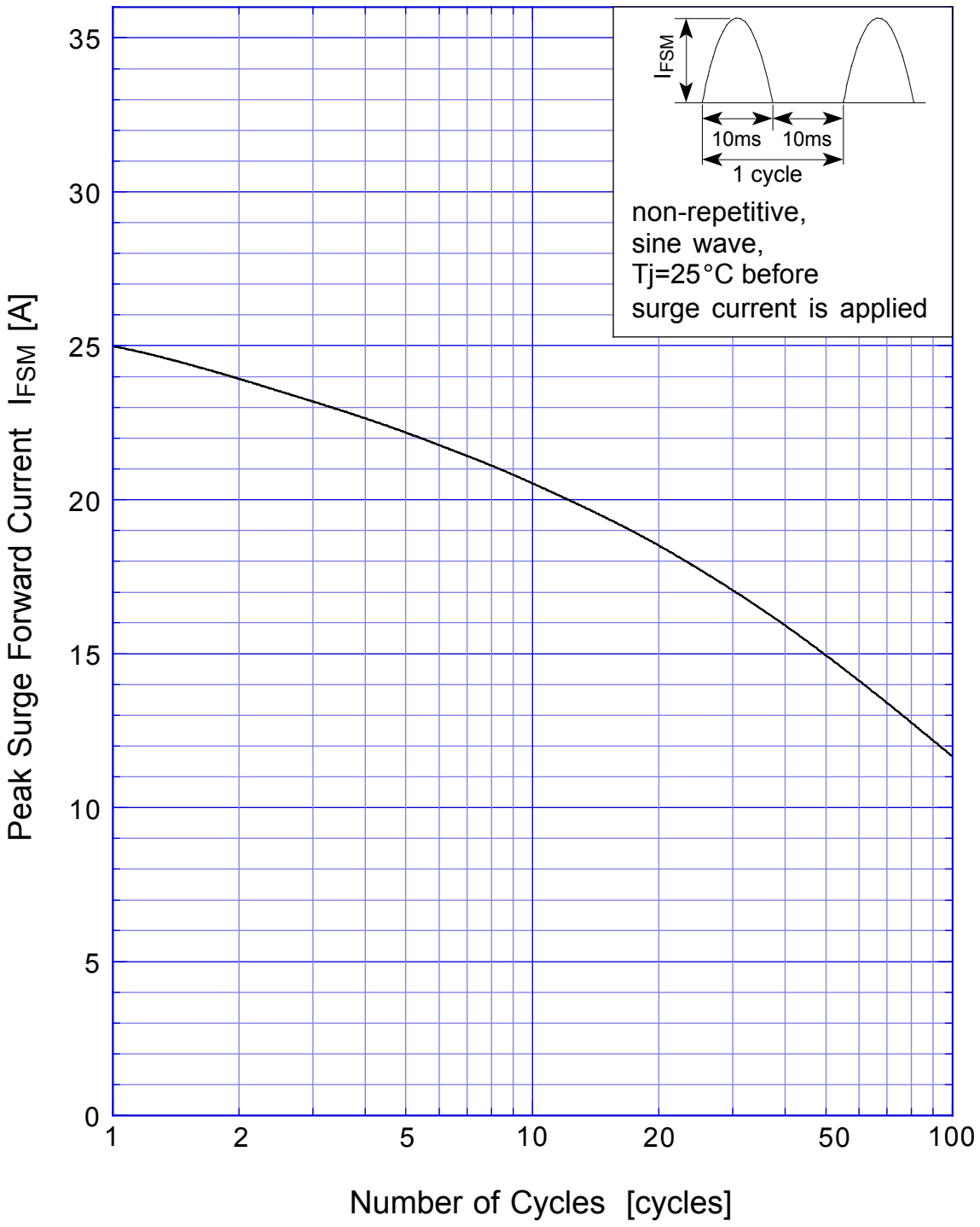


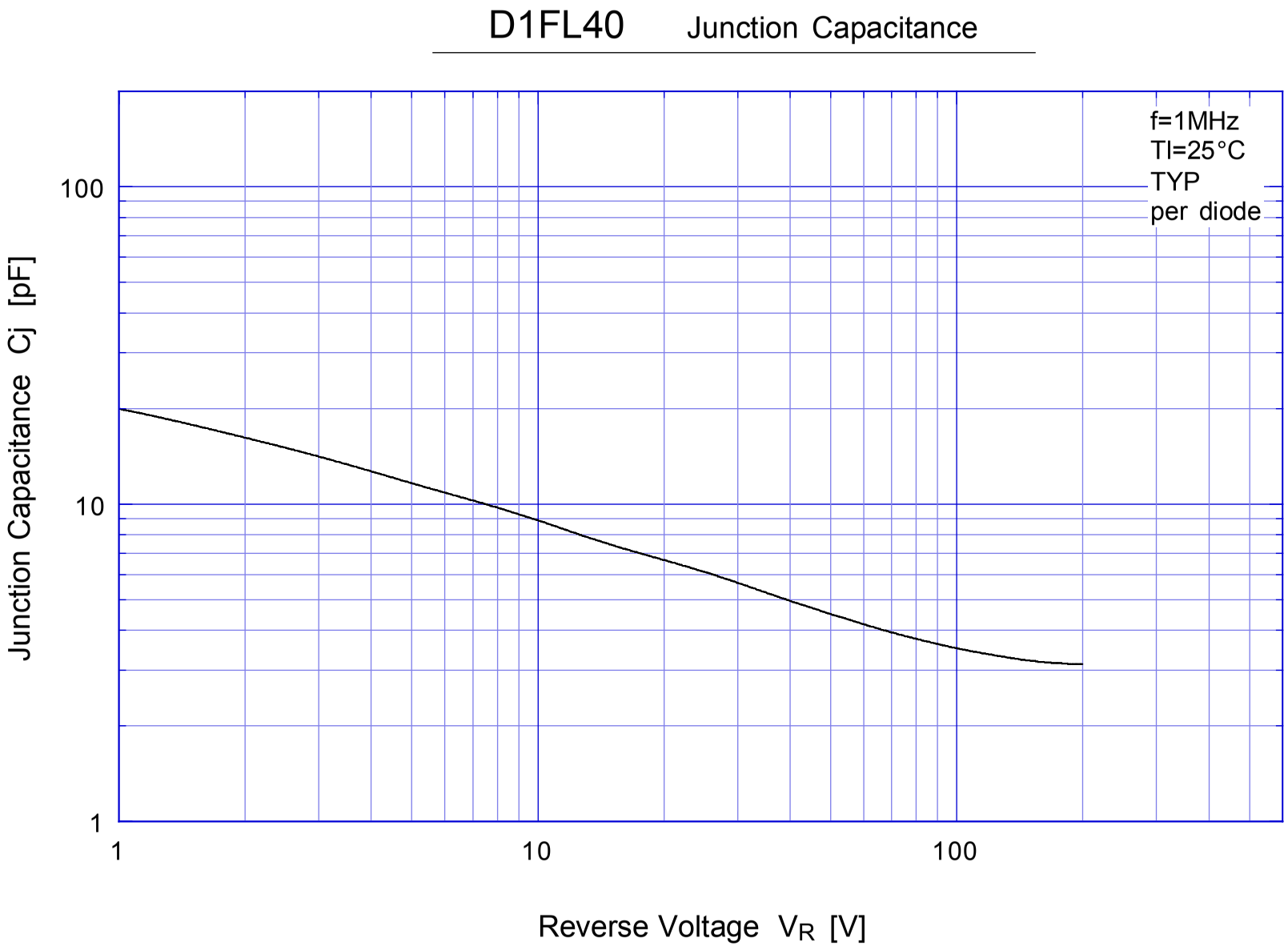
D1FL40 Derating Curve





D1FL40 Peak Surge Forward Capability




D1FL40 Junction Capacitance
f=1MHz
Tl=25°C
TYP
per diode
100
10
1
1
10
100
Junction Capacitance Cj [pF]
Reverse Voltage VR [V]